

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
MAT-5340US3

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

DATA TRANSMITTING APPARATUS, DATA RECEIVING APPARATUS AND DATA TRANSMISSION CONTROL APPARATUS

and invented by:

Hidetoshi TAKEDA; Hiroyuki IITSUKA; Takuya NISHIMURA; and Masazumi YAMADA

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/586,915

Which is a:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 08/945,629

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 50 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☒ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☒ Formal Number of Sheets 11
- b. ☐ Informal Number of Sheets _____
4. ☒ Oath or Declaration
- a. ☐ Newly executed *(original or copy)* ☐ Unexecuted
- b. ☒ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☒ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☒ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☒ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail *(Specify Label No.):* EV 015863594 US

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*

16. ☒ Additional Enclosures *(please identify below)*:

Copy of English Translation of Article 34 Amendment, which was filed April 2, 1997

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	1	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	1	- 3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$740.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$740.00

- ☒ A check in the amount of \$740.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 18-0350 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Signature

Dated: November 29, 2001

Lawrence E. Ashery, Reg. No. 34,515
Ratner & Prestia
P.O. Box 980
Valley Forge, PA 19482
(610) 407-0700

CC:

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): H. Takeda et al.

Docket No.

MAT-5430US3

Serial No.
To be assignedFiling Date
Herewith

Examiner

Group Art Unit

Invention: DATA TRANSMITTING APPARATUS, DATA RECEIVING APPARATUS AND DATA TRANSMISSION
CONTROL APPARATUSI hereby certify that this Continuation Utility Patent Application with its listed enclosures

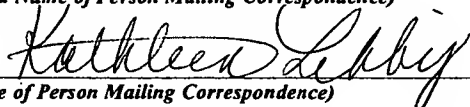
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is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under
(Box Patent Application)37 CFR 1.10 in an envelope addressed to: U.S. Patent and Trademark Office
P.O. Box 2327, Arlington, VA 22202I on November 29, 2001

(Date)

Kathleen Libby

(Typed or Printed Name of Person Mailing Correspondence)


(Signature of Person Mailing Correspondence)

EV 015863594 US

("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing.

NOTATIONS:

	1...information table holder
	2...transmission rate information extractor
5	3...counter
	4...transmission bandwidth determiner
	21...smoothing buffer
	22...arrival timing catcher
	23...time stamp generator
10	24...time stamp adder
	25...transmission timing determiner
	26...cycle time register
	27...transmission packet converter
	30...output time judging unit
	31...counter
	32...transmission timing controller
	101...bandwidth detection means
	102...necessary bandwidth calculation means
	103...transmission condition judge means
20	104...acquired bandwidth
	105...transmission control means
	106...bandwidth information adding means
	107...transmission means
	108, 112, 122...data
25	109...data bandwidth
	110...necessary bandwidth at transmitting medium
	111...transmission condition judge result
	113, 119...bandwidth information added data
	114...transmitting medium
30	115...reception means
	116...transmission stop detection means
	117...bandwidth information separation means
	118...processing means
	120...transmission stop detection result
35	121...bandwidth information

123...direction signal to recording and reproducing

actions

124...transmitting apparatus

125...receiving apparatus

126...tuner

127...playback apparatus

128...recording apparatus

129...reproducing apparatus

130...data processing means

201...packet header

202...CRC for packet header

203a, 203b, 206...CIP header

204...data block

205...CRC for data

207...payload part

301...SID (Source node ID)

302...DBS (Data Block Size)

303...FN (Fraction Number)

304...QPC (Quadlet Padding Count)

305...SPH (Source Packet Header)

306...DBC (Data Block continuity Counter)

307...FMT (Format)

308...FDF (Format Dependent Field)

401, 801, 810, 908...propagation delay identifier

holding means

402, 802, 811...maximum transmission data size holding

means

403, 809...bandwidth acquiring means

404, 803, 808, 904, 907...transmission/reception means

405, 804, 812, 909...propagation delay identifier

406, 805, 813...maximum transmission data size

407, 806, 814, 910...transmitting apparatus

408, 807, 906...transmitting medium

501...packet

502...request for ownership of bus

503...permission of bus use
601...control node for ownership of bus
602...relay node
603...transmission node
5 701...on-line identifier
702...broadcast connection counter
703...point-to-point connection counter
704...non-use field
705...channel
10 706...data rate
707...overhead ID
708...payload size
901...analyzing means
902...identifier determination means
903...identifier setting means
905...transmission control apparatus